

## Overview

PWR-10001 is a power distribution module designed with the widely used XT30 connector.

## Features

- x1 XT30 input
- x7 XT30 outputs
  - 6 standard outputs
  - 1 daisy-chain output
- Max current: 30A continuous
- Inter-board daisy-chain connectivity
- Clear identification of wire polarity to prevent errors
- Small form factor
- Designed, manufactured, tested, and shipped from the USA

## Kit Includes

- PWR-10001
- Enclosure

## Typical Applications

- Robotic competitions (FRC, FTC, VEX, etc.)
- RC projects (cars, trucks, boats, etc.)
- Other hobby projects



Figure 1: PWR-10001

## Description

Power is an essential aspect of any electrical system. Playing With Fusion's XT30 power distribution board makes sharing that power easy. Built with a widespread connector, the XT30 is the ideal way to route power throughout your build. All aspects of the XT30 power distribution board were designed with users in mind. A mounting footprint of 1.5" by 0.875" reduces installation difficulty. The small footprint fits anywhere it is needed. With 6 output channels, the rats' nest of wires will disappear. If more channels are needed, multiple boards can be daisy-chained together (see Figure 2).



Figure 2: Daisy-chained modules

## Electrical Information

- Max input current: 30A continuous
- Max total output current: 30A continuous

## **Application & Guide**

To use PWR-10001, no setup is required.  
Just connect power. See the implementation  
in action on Playing With Fusion's YouTube  
channel.

## **Ordering Options & Related Parts**

PWR-10002: a different footprint of the  
XT30 power distribution module

PWR-20001: PTC Fused Sensor Power  
Distribution

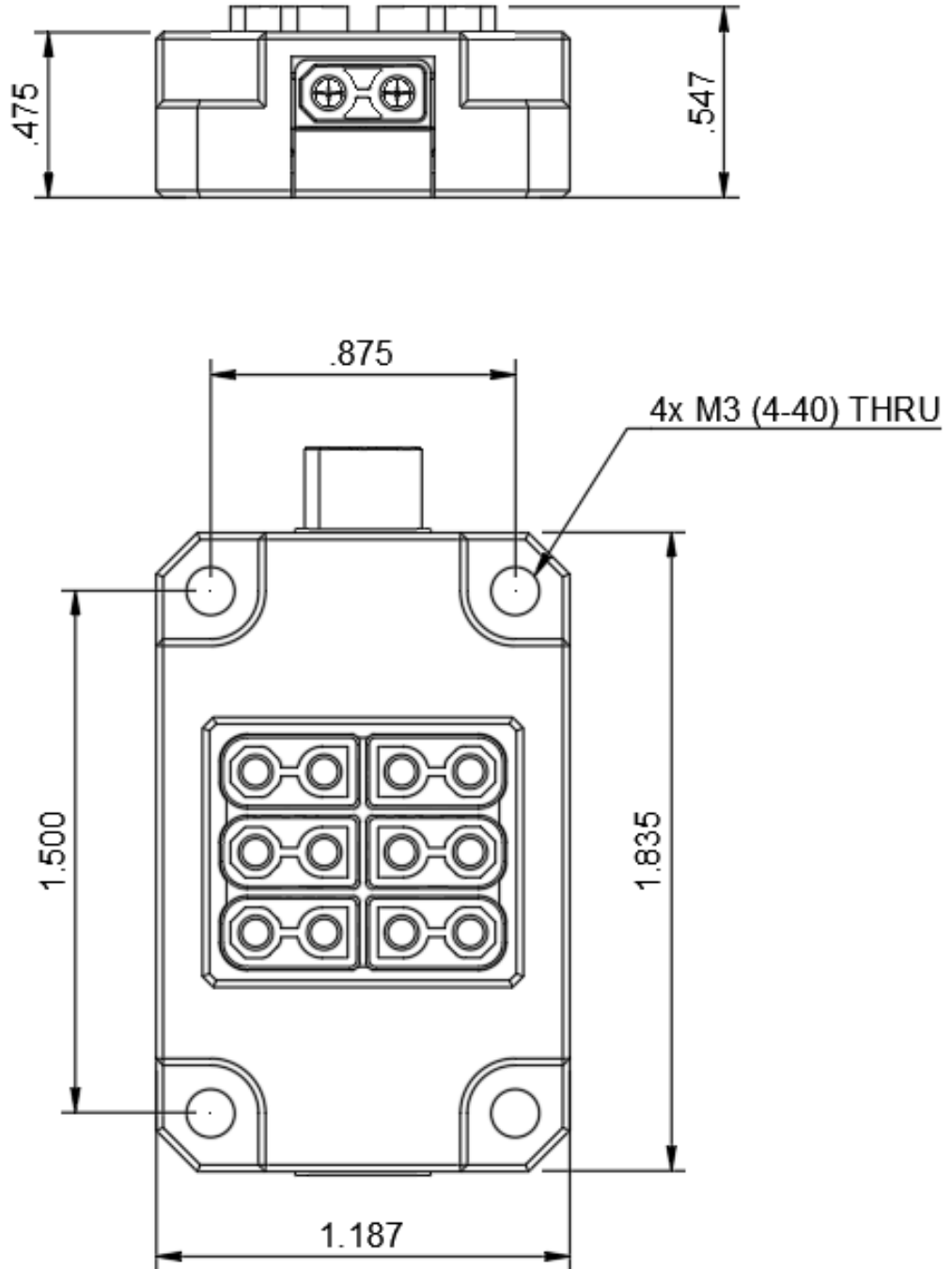
IFB-10013: CAN Inline 2-way splitter

IFB-10014: CAN Inline 3-way splitter

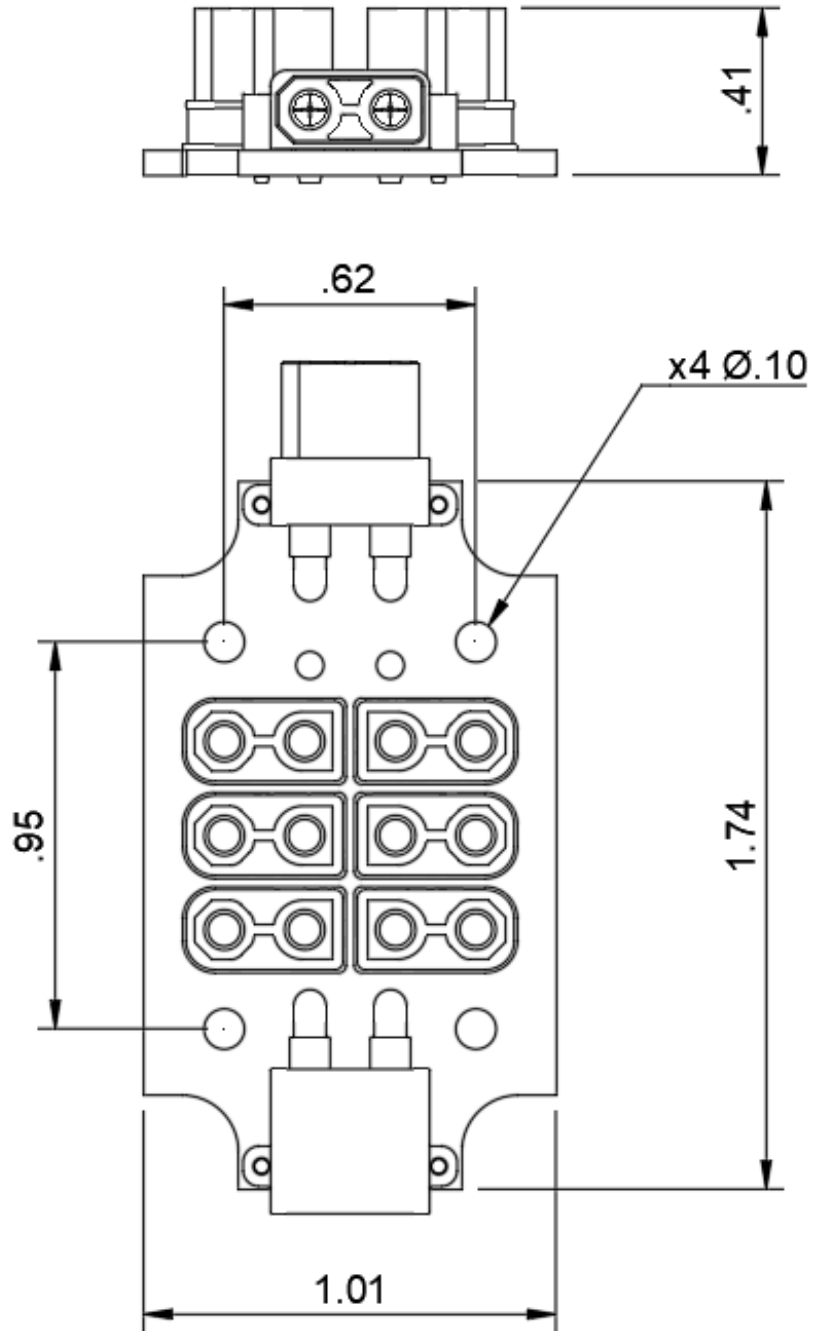
IFB-10015: CAN "Y" 2-way splitter

IFB-10016: CAN "Y" 3-way splitter

Appendix 1: Mechanical Drawing of Enclosure



Appendix 2: Mechanical Drawing of PCB



## Revision History

<b>Date</b>	<b>Author</b>	<b>Notes</b>
10/30/2024	N. Johnson	Initial creation